# Stellingen

Behorende bij het proefschrift

"Mechanistic studies on a peptide-based self-replicating system"

van Mathieu Colomb-Delsuc

1. Scientists interested in the origin of life or attempting to synthesize life de-novo should agree upon a common definition of life in order to objectively study such systems.
   D. E. Koshland, *Science*, **2002**, 295, 2215-2216
   K. Ruiz-Mirazo, *Origins of Life and Evolution of the Biosphere*, **2004**, 34, 323-346
   A. Pross, *Curr. Org. Chem.,* **2013**, 17, 1702-1703

2. It is not because you do not see an object by transmission electron microscopy that it is not part of your sample.

3. The size of a living cell on Earth is at the center between the size of elemental particles and the size of the known Universe. Further understanding and investigation of the laws that govern this observation may lead to interesting discoveries.

4. As peer-reviewing of scientific articles is supposedly a trustworthy process, it is hard to understand how studies containing highly suspicious hints of corrupted, replicated or manipulated data can be accepted.
   M. Koneswaran et *al*., *Sensors and Actuators B: Chemical*, **2009**, 139, 104-109
   R. Anumolu *et al.*, *Nano Lett.*, **2013**, *13* (9), 4580-4580
   B. Anxionnat *et al.*, *Org. Lett.*, **2011**, *13* (15), 4084-4087

5. Even though artistic creativity should be encouraged, that exhibited by some scientists illustrating their research in a scientific context should sometimes be slightly more restrained.
   http://tocrofl.tumblr.com

6. Skepticism is one of the main qualities of a scientist; one should always be critical when treating information, regardless of the notoriety of its source.

7. Working in a group of people with heterogeneous backgrounds and vast cultural divergence is a daily source of discoveries and personal enrichment.

8. Inspiration can come from anywhere at any time. For this reason, a scientist should keep an open mind every moment of his life.